### G1.7.38

# JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

### 4" IC 900 LUMEN LED DOWNLIGH **NEW CONSTRUCTION** IC1LED (G4 09LM) RECESSED HOUSING



Dedicated LED, Air-Loc<sup>®</sup> sealed new construction housing with integral light engine • Double wall, shallow housing construction allows for fit in 2 x 6 construction • Can be completely covered with insulation • Fully sealed housing stops infiltration and exfiltration of air, reducing heating and air cooling costs without the use of additional gaskets • LED housing is designed to provide 50,000 hours of life and is compatible with many standard Juno trims • 5 year limited warranty on LED components.

### **ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT**

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury, RoHS compliant
  Comparable light output to 75W incandescent

### **PRODUCT SPECIFICATIONS**

**LED Light Engine** LED array attached to high purity aluminum, thermally conductive inner housing provides superior heat transfer to ensure long life of the LED • Replaceable light engine mounts directly to inner housing assembly and incorporates the latest generation, high lumen output LED array • LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR<sup>®</sup> requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K, or 4000K color temperatures available • 90 CRI minimum.

**Optical System** Two field interchangeable optics available in medium flood (45° beam angle) and wide flood (65° beam angle) • Computer-optimized reflector design with high reflectance finish coupled with a high transmission diffusing lens conceals the LEDs and produces uniform aperture luminance • Deep regression of lens produces a low glare, efficient system that can produce over 900 lumens with select trims (see page 2 for details) using less than 12W

Aesthetic Trim Selections Compatible with wide selection of existing Juno trims • Shadow free, knife edge design blends seamlessly into ceiling. **LED Driver** Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) drivers that accommodate input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage drivers are dimmable with the use of most 0-10V wall box dimmers • For a list of compatible dimmers, see <u>JUNOICLED-DIM</u> • Mounted inside housing for easy access from below ceiling.

Life Rated for 50,000 hours at 70% lumen maintenance.

Labels ENERGY STAR® Certified when used with select trims • Can be used to comply with 2019 Title 24, Part 6, JA8 high efficacy LED light source requirements with select trims • UL listed for U.S. and Canada through-branch wiring, damp locations •Union made • UL and cUL • CP option is compatible with spray foam insulation with an R-value of 3.2 per inch or less.

**Testing** All reports are based on published industry procedures; field performance may differ from laboratory performance. Specifications subject to change without notice.

### **HOUSING FEATURES**

Housing Designed for use in IC (insulated ceiling) or non-IC construction Aluminum housing sealed for Air-Loc® compliance
 Housing is vertically adjustable to accommodate up to a 1½" ceiling thickness.

**Junction Box** Pre-wired junction box provided with (6) ½" and (1) ¾" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 4 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts equipped with pryout slots • Quick connect electrical connectors supplied as standard for fast, secure installation.

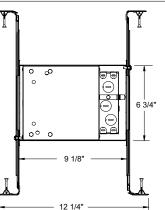
Mounting Frame 22-gauge die-formed galvanized steel mounting frame • Rough-in section (junction box, mounting trame, housing and bar hangers) fully assembled for ease of installation.

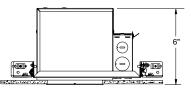
Real Nail 3 Bar Hangers Patented (US Patent D552,969) Real Nail® a bar hangers: telescoping system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Includes removable nail for repositioning of fixture in wood joist construction • Integral T-bar notch and clip for suspended ceilings.



**OPEN TRIMS** 

### DIMENSIONS





4 1/2" CEILING CUTOUT

\* Nominal input wattage @ 120-volt operation with dedicated 120-volt driver under stable operating conditions.

One Lithonia Way • Conyers, GA 30012 • Phone 1-800-705-SERV (7378) • Visit us at www.acuitybrands.com CuityBrands. Printed in U.S.A. ©2017-2023 Acuity Brands Lighting, Inc. Rev. 03/9/23

**OPEN TRIMS** 

## 4" IC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION IC1LED (G4 09LM) RECESSED HOUSING

### ELECTRICAL DATA

### **ELECTRICAL DATA**

Dedicated 120	Only Driver Option (120 FRP	PC)
	120V	
Input Power	11.6W (+/-5%)	
Input Current	0.10A	
Frequency	50/60Hz	
EMI/RFI	FCC Title 47 CFR, Part 15,	
	Class B (residential)	
Minimum starting temp	-25°C	

Universal Vol	tage				
	MVOLT EZ	10 and EZ1	MVOLT ZT10 and ZT1		
	120V	277V	120V	277V	
Input Power	11.2W (+/-5%)	12.2W (+/-5%)	11.2W (+/-5%)	12.2W (+/-5%)	
Input Current	0.10A	0.05A	0.10A	0.05A	
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	
Minimum starting temp	-20°C	-20°C	-20°C	-20°C	

### ORDERING INFORMATION Housing and trim can be ordered together or separate, but will always ship separately.

Example: IC1LED G4 09LM 27K 90CRI 120 FRPC

Series		Gene	ration	Lumens		Color	Temperature	CRI		Distribut	ion
IC1LED	4" LED IC New Construction Downlight	G4	Generation 4	09LM	900 Nominal Lumens	27K	2700K	90CRI	90+ CRI	(blank)	Medium Flood (45°)
						30K	3000K			WFL	Wide Flood (65°)
						35K	3500K				
						40K	4000K				

Voltage/Driv	er	Terri	itory
120 FRPC	120V Forward/Reverse Phase Cut, 5% dim	CP	Chicago Plenum
MVOLT ZT10	Multi-Volt (120-277), 0-10V, 10% dim		
MVOLT ZT1	Multi-Volt (120-277), 0-10V, 1% dim		
MVOLT EZ10	Multi-Volt (120-277), eldoLED 0-10V, 10% dim		
MVOLT EZ1	Multi-Volt (120-277), eldoLED 0-10V, 1% dim		

#### Trim/Description



4" Pinhole with Integral Shield - White
---

ZI	4" Downlight Baffle Trim - Black Baffle, Bronze Trim Ring
	4" Downlight Baffle Trim - Black Baffle, Black Trim Ring
	4" Downlight Baffle Trim - Black Baffle, Satin Chrome Trim Ring
ľ	4" Downlight Baffle Trim - Black Baffle, White Trim Ring
H	4" Downlight Baffle Trim - White Baffle, White Trim Ring
I	4" Downlight Cone Trim - Black Cone, White Trim Ring
	4" Downlight Cone Trim - Clear Alzak® Cone, White
/LI	1" Downlight Cone Trim - Haze Cone White Trim



4" Downlight Baffle Trim - White Baffle, White Trim Ring 4" Downlight Cone Trim - Black Cone, White Trim Ring 4" Downlight Cone Trim - Clear Alzak® Cone, White 4" Downlight Cone Trim - Haze Cone, White Trim 4" Downlight Cone Trim - Wheet Haze Cone, Bronze Trim Ring 4" Downlight Cone Trim - Wheet Haze Cone, White Trim 4" Downlight Cone Trim - Wheet Haze Cone, White Trim 4" Downlight Cone Trim - Wheet Haze Cone, White Trim

Trim Size: 5″ 0.D. Alzak is a registered trademark of Alcoa Corp. Note: In Canada when insulation is present, Type IC fixtures must be used.

<sup>1</sup> Multi-Volt: T24 @ 30K, 35K, 40K only

# 4" IC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC1LED (G4 09LM) RECESSED HOUSING

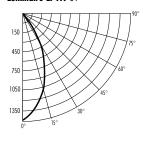
## **OPEN TRIMS**

### **PHOTOMETRICS**

### PHOTOMETRIC REPORT

Test Report #: PT02141303R Catalog No: IC1LED G4 09LM 35K 90CRI 120 with 14 WWH Trim

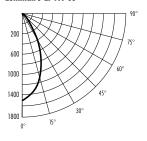
Luminaire Spacing Criterion: 0.72 Luminaire LPW: 81



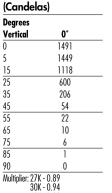
### PHOTOMETRIC REPORT

Test Report #: LTL26327R Catalog No: IC1LED G4 09LM 35K 90CRI 120 with 17 CWH Trim

Luminaire Spacing Criterion: 0.70 Luminaire LPW: 85



### CANDLEPOWER DISTRIBUTION



40K - 1.03

CANDLEPOWER

0'

1508

1482

1104

620

254

82

26

3

0

0

0

DISTRIBUTION

(Candelas)

Degrees

Vertical

0

5 15

25

35

45

55

65

75

85

90

Multiplier: 27K - 0.89

30K - 0.94 40K - 1.03

### AVERAGE INITIAL FOOTCANDLES

 Ceiling 80% Wall 50% Floor 20%

 Spacing
 RCR1
 RCR3
 RCF3

spacing	N SA I	NCR0	n en s
4.0´	65	57	50
5.0´	42	36	32
6.0´	29	25	22
7.0´	23	20	18
8.0´	18	16	14
9.0´	14	12	11
10.0´	10	9	8

<b>ZONAL LUMEN</b>	SUMMARY
--------------------	---------

Zone	Lumens	%Lamp	%Fixture
0 - 30°	717	N/A	76.5
0 - 40°	852	N/A	91.0
0 - 60°	917	N/A	98.0
0 - 90°	936	N/A	100.0

### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%					
Spacing	RCR 1	RCR3	RCR5		
4.01	68	59	52		
5.0´	44	38	33		
6.01	30	26	23		
7.0´	25	21	19		
8.0´	19	17	15		
9.0´	15	13	11		
10.01	11	10	8		

ZONAI		N SUM	MARY
Zone	Lumens	%Lamp	%Fixture
0 - 30°	725	N/A	73.9
0 - 40°	887	N/A	90.5
0 - 60°	977	N/A	99.6
0 - 90°	981	N/A	100.0

#### INITIAL FOOTCANDLES (One Unit, 11.6W, 44.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	93.2	3.2′
6	41.4	4.9′
8	23.3	6.5′
10	14.9	8.1′

### LUMINANCE (Average cd/m<sup>2</sup>)

Average		
Luminance		
12517		
6382		
4034		
4069		
2014		
	Luminance 12517 6382 4034 4069	

### INITIAL FOOTCANDLES

(One Unit, 11.6W , 43.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	94.3	3.2′
6	41.9	4.8′
8	23.6	6.4′
10	15.1	8.1′

### LUMINANCE (Average cd/m<sup>2</sup>)

Average		
Degrees	Luminance	
45	18733	
55	7144	
65	1077	
75	0	
85	0	
00	•	

Fixtures tested to IES recommended standard for solid state lighting per UM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

Z